

Important Notebooks:

- Voigtpicca: create Voigt profile, Fourier transform, compare at diff temps/NHI
- Voigtcode: derive Voigt profile from Fadeeva function
- Picca: correlation b/n models and mocks in Fourier space
- Vega Cases Folder: 4 wedge correlations
 - Use auto and cross .ini files
 - Results recorded in excel sheet
- Fitter_plots_outputs: 1D/2D parameter plots
 - Run .ini files (run vega.py main.ini) in the terminal to create fits files outputs
 - .ini classifications
 - C = cooked
 - F = fvoigt hcd modelling
 - G = good/i.e. corrected cross-correlations
 - R = rogers hcd modelling
 - 25 = r-min \rightarrow 25
- Mock_model_plots: 1D phi s plots at 10 Mpc and 25 Mpc

Notes:

- Mocks = baseline (no hcds), hcd \rightarrow 17, hcd \rightarrow 20, all hcds (don't have yet)
- Models = none, roger, fvoigt

Plots We Want to Make:

- Run cases of mocks x models for 1d phi s
 - 10 vs 25 Mpc
 - no/no, 17/roger, 17/fvoigt, 20/roger, 20/fvoigt
 - 10 Mpc
 - no/roger, no/fvoigt
 - Roger model needs L0_hcd = True in the main.ini sample
- Run cases for no model cases for 1d alpha s at 10 and 25 Mpc

Problems:

- Roger models at 10 Mpc and Fvoigt models at 25 Mpc will not run through the terminal for the HCDs \rightarrow 17 & 20 mocks
 - TypeError: Cannot change data-type for object array
 - The auto_minimize worked in a jupyter notebook